

Applicant: Kadar et al.
Application Serial No.: 10/742,308
Filing Date: December 19, 2003
Docket No.: P-5655/9 (102-599)
Page 2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A roller bottle for use in culturing cells, comprising:
 - a bottom;
 - a top; and,

a continuous side wall extending between said bottom and said top, said side wall having an interior surface and an exterior surface, and being spaced about a longitudinal axis of said bottle for allowing said bottle to rotate along said side wall about the longitudinal axis for distributing, along said side wall, a liquid medium contained in said bottle to wet said side wall, said side wall including at least one pleat extending from a first point proximate said top to a first point proximate said bottom, said pleat being arranged at an angle offset with respect to a plane perpendicular to the longitudinal axis of said bottle, said pleat defining at least one interior channel on said inner surface of said side wall for permitting laminar flow and distribution of said liquid along said pleat, said interior channel providing a surface for culturing the cells, wherein at least one smooth land is formed in said side wall, said land interrupting said pleat.
2. (Original) The bottle of claim 1, wherein said angle is in the range of about 2° to about 70°.
3. (Original) The bottle of claim 2, wherein said pleat is a single helical pleat.
4. (Original) The bottle of claim 3, wherein said angle is in the range of about 2° to about 10°.
5. (Original) The bottle of claim 2, wherein said at least one pleat comprises a plurality of substantially parallel pleats.

Applicant: Kadar et al.

Application Serial No.: 10/742,308

Filing Date: December 19, 2003

Docket No.: P-5655/9 (102-599)

Page 3

6. (Original) The bottle of claim 5, wherein said angle is in the range of about 40° to about 70°.

7. (Original) The bottle of claim 6, wherein said angle is approximately 65°.

8. (Currently amended) The bottle of claim 1, ~~further comprising at least one smooth wherein said land running runs~~ between a second point proximate said top and a second point proximate said bottom.

9. (Cancelled)

10. (Original) The bottle of claim 8, wherein said land is substantially arcuate, and lies in a cylindrical plane of generally constant distance from the longitudinal axis of said bottle.

11. (Original) The bottle of claim 10, wherein said exterior surface of said pleat includes apices extending to a generally cylindrical plane co-incident with said plane of said land.

12. (Original) The bottle of claim 1, wherein said pleat is approximately 0.079 inches deep.

13. (Original) The bottle of claim 1, wherein said interior channel has a substantially uniform width.

14. (Original) The bottle of claim 13, wherein said interior channel is approximately 0.195 inches wide.

15. (New) A roller bottle for use in culturing cells, comprising:

a bottom;

a top; and,

a continuous side wall extending between said bottom and said top, said side wall having an interior surface and a wholly exposed exterior surface, and being spaced about a longitudinal

Applicant: Kadar et al.

Application Serial No.: 10/742,308

Filing Date: December 19, 2003

Docket No.: P-5655/9 (102-599)

Page 4

axis of said bottle for allowing said bottle to rotate along said side wall about the longitudinal axis for distributing, along said side wall, a liquid medium contained in said bottle to wet said side wall, said side wall including at least one pleat extending from a first point proximate said top to a first point proximate said bottom, said pleat being arranged at an angle offset with respect to a plane perpendicular to the longitudinal axis of said bottle, said pleat defining at least one interior channel on said inner surface of said side wall for permitting laminar flow and distribution of said liquid along said pleat, said interior channel providing a surface for culturing the cells.

16. (New) The bottle of claim 15, wherein said side wall is rotatable about the longitudinal axis of said bottle.